

ABSTRACT OF THE DISCLOSURE

A parallel process execution method that allocates CPU time to parallel processes at any desired ratios. The method sets a time allocation ratio to determine how much of a given cycle period should be allocated for execution of a parallel program. Process switching is then performed in accordance with the time allocation ratio set to the parallel program. More specifically, parallel processes produced from a parallel program are each assigned to a plurality of processors, and those parallel processes are started simultaneously on the processors. When the time elapsed since the start of the parallel processes has reached a point that corresponds to the time allocation ratio that has been set to the parallel program, the execution of the assigned parallel processes is stopped simultaneously on the plurality of processors.